



US01 corrected sequence listing.txt
SEQUENCE LISTING

<110> Shi, Wenyuan
Morrison, Sherie
Trinh, Kham
Wims, Letitia
Chen, Li
Anderson, Maxwell
Qi, Fengxia

<120> Anti-Microbial Targeting Chimeric Pharmaceutical

<130> 59157.8007.US01

<140> US 10/077,624

<141> 2002-02-14

<150> US 09/910,358

<151> 2001-07-19

<150> US 09/378,577

<151> 1999-08-20

<160> 31

<170> PatentIn version 3.4

<210> 1

<211> 563

<212> DNA

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<220>

<223> Histatin 5/linker peptide/SWLA3 VH chain construct synthesized
using sequential PCR techniques

<220>

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<222> (69)..(140)

<223> Histatin 5 peptide

<220>

<221> misc_feature

<222> (141)..(188)

<223> Glycine/serine linker peptide

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accactcgca cagaggatac tctggtggcg gtggctcggg cggagggtggg tcgggtggcg 180

gcggatccga cgtgaagctt gtggagtctg ggggaggctt agtgaaccct ggaggggtccc 240

tgaaactctc ctgtgcagcc tctggattca ctttcagtag ctataccatg tcttgggttc 300

gccagactcc ggagaagagg ctggagtggg tcgcatccat tagtagtggg ggtacttaca 360

cctactatcc agacagtgtg aagggccgat tcaccatctc cagagacaat gccaagaaca 420

ccctgtacct gcaaatagacc agtctgaagt ctgaggacac agccatgtat tactgttcaa 480

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cagtcaccgt ctcttcagct agc 563

<210> 2
<211> 24
<212> PRT
<213> Homo sapiens

<400> 2

Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
1 5 10 15

Lys His His Ser His Arg Gly Tyr
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<210> 3
<211> 16
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<220>
<223> Linker peptide used to separate antimicrobial peptides from
antibody VH chains in chimeric antibody fusion protein constructs

<400> 3

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<210> 4
<211> 165
<212> PRT
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<220>
<223> Histatin 5/linker peptide/SWLA3 VH chain construct synthesized
using sequential PCR techniques

<220>
<221> MISC_FEATURE
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<223> Histatin 5 peptide

<220>
<221> MISC_FEATURE
<222> (25)..(40)
<223> Glycine/serine linker peptide

<400> 4

Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
1 5 10 15

Lys His His Ser His Arg Gly Tyr Ser Gly Gly Gly Gly Ser Gly Gly
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20

25

30

Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Lys Leu Val Glu Ser Gly
35 40 45

Gly Gly Leu Val Asn Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
50 55 60

Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met Ser Trp Val Arg Gln Thr
65 70 75 80

Pro Glu Lys Arg Leu Glu Trp Val Ala Ser Ile Ser Ser Gly Gly Thr
85 90 95

Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
100 105 110

Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Thr Ser Leu Lys Ser
115 120 125

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Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr
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Val Ser Ser Ala Ser
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<210> 5
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<220>
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<223> Glycine/serine linker peptide

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ctttcagtag ctataccatg tcttgggttc gccagactcc ggagaagagg ctggagtggg 300
tcgcatccat tagtagtggg ggtacttaca cctactatcc agacagtgtg aagggccgat 360
tcaccatctc cagagacaat gccaagaaca ccctgtacct gcaaatgacc agtctgaagt 420
ctgaggacac agccatgtat tactgttcaa gagatgacgg ctcttacggc tcctattact 480
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<210> 6
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<220>
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 <400> 6

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<210> 7
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 <212> PRT
 <213> Artificial sequence

<220>
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 <222> (1)..(14)
 <223> Dhvar 1 peptide

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 <222> (15)..(30)
 <223> Glycine/serine linker peptide

<400> 7

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Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val
 20 25 30

Lys Leu Val Glu Ser Gly Gly Gly Leu Val Asn Pro Gly Gly Ser Leu
 35 40 45

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Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met
50 55 60

Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser
65 70 75 80

Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly
85 90 95

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
100 105 110

Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ser Arg
115 120 125

Asp Asp Gly Ser Tyr Gly Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly
130 135 140

Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser
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<210> 8
<211> 89
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<213> Artificial sequence

<220>
<223> PCR primer used to generate histatin 5/SWLA3 chimeric antibody fusion protein construct

<400> 8
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ggcggatccg acgtgaagct tgtggagtc 89

<210> 9
<211> 84
<212> DNA
<213> Artificial sequence

<220>
<223> PCR primer used to generate histatin 5/SWLA3 chimeric antibody fusion protein construct

<400> 9
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aagcaccact cgcacagagg atac 84

<210> 10
<211> 74
<212> DNA
<213> Artificial sequence

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<220>
 <223> PCR primer used to generate histatin 5/SWLA3 chimeric antibody fusion protein construct

<400> 10
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 ccagtgtgat agcc 74

<210> 11
 <211> 87
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<220>
 <223> PCR primer used to generate dhvar 1/SWLA3 chimeric antibody fusion protein construct

<400> 11
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 cggatccgac gtgaagcttg tggagtc 87

<210> 12
 <211> 69
 <212> DNA
 <213> Artificial sequence

<220>
 <223> PCR primer used to generate dhvar 1/SWLA3 chimeric antibody fusion protein construct

<400> 12
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 cgcaagtac 69

<210> 13
 <211> 65
 <212> DNA
 <213> Artificial sequence

<220>
 <223> PCR primer used to generate dhvar 1/SWLA3 chimeric antibody fusion protein construct

<400> 13
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 tccag 65

<210> 14
 <211> 39
 <212> DNA
 <213> Artificial sequence

<220>
 <223> PCR primer used to generate histatin 5/SWLA3 and dhvar 1/SWLA3

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chimeric antibody fusion protein constructs

<400> 14
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<210> 15
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<400> 15

Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
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Gly Arg

<210> 16
<211> 57
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<210> 17
<211> 18
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic antimicrobial peptide based on Ovis aries SMAP-29

<400> 17

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Tyr Gly

<210> 18
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<220>
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<222> (8)..(15)
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<400> 18

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<220>
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<400> 19
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<210> 20
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 <213> Artificial sequence

<220>
 <223> Forward primer for amplification of glycine/serine linker

<400> 20
 ggggatccgg tggcgggtggc tcg 23

<210> 21
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<400> 21
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<210> 22
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<223> ClaI restriction enzyme cleavage site
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 <210> 26
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<213> Artificial sequence

<220>

<223> Synthetic linker for use in protegrin fusion protein

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<210> 27

<211> 72

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic linker for use in protegrin fusion protein

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ggtggcacta gt 72

<210> 28

<211> 28

<212> DNA

<213> Artificial sequence

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<223> Forward primer for amplification of SWLA3 VH chain/CH3 linker

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<221> misc_feature

<222> (5)..(10)

<223> NheI restriction enzyme cleavage site

<400> 28

gtgggctagc ctcgacccaa agagctgc 28

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<211> 38

<212> DNA

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<223> Reverse primer for amplification of SWLA3 VH chain/CH3 linker

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aggttctcgg ggctgcccac tagtgccacc gccggacc 38

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<213> Artificial sequence

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<400> 30
gggcagcccc gagaacaac 19

<210> 31
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<223> Reverse primer for amplification of human CH3 gene fragment

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